EB-193 V2

ORDERCODE D145279
ORDERCODE D145282

SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!
You have bought a great, innovative product from DAP Audio.
The DAP Audio EB-193 brings excitement to any venue.

You can rely on DAP Audio, for more excellent audio products.
We design and manufacture professional audio equipment for the entertainment industry.
New products are being launched regularly. We work hard to keep you, our customer, satisfied.
For more information: iwant@dap-audio.info

You can get some of the best quality, best priced products on the market from DAP Audio.
So next time, turn to DAP Audio for more great audio equipment.
Always get the best -- with DAP Audio !

Thank you!

DAP Audio EB-193™ Product Guide

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WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- DAP EB-193
- Storage case
- Screwdriver
- User manual

WARNING

CAUTION!
Keep this device away from rain and moisture!

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

SAFETY INSTRUCTIONS

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual

CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!

Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never remove warning or informative labels from the unit.
- Never leave any cables lying around.
- Do not open the device and do not modify the device.

- Do not switch the system on and off in short intervals, as this would reduce the system's life.
- Do not drive the inputs with a signal level bigger, than required to drive the equipment to full output.
- Only use device indoor, avoid contact with water or other liquids.
- Avoid flames and do not put close to flammable liquids or gases.
- Make sure you don't use the wrong kind of cables or defective cables.
- Please turn off the power switch, when changing the power cord or signal cable, or select the input mode switch.
- If the system has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your system. Leave the system switched off until it has reached room temperature.
- If your Dap Audio device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Dap Audio dealer for service.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

OPERATING DETERMINATIONS

If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.

Improper installation can cause serious damage to people and property !

⚠ Return Procedure ⚠

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.nl and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:

1) Your name
2) Your address
3) Your phone number
4) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any short-comings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

Description of the device

Features

The EB-193 ia professional wireless microphone from Dap Audio. There are two types ranges available:

D145273, frequency range 740 – 764Mhz
D145282, frequency range 822 – 846Mhz

- PLL synthesized 193 switchable frequencies.
- Operation in the UHF range.
- Compatible with Lavalier or headset microphones (not included).
- Powered by 2x AA batteries.
- Equiped with 3P mini connector
- LCD

Overview

Fig. 1

1. Up Button
2. Down Button
3. On/Off Button
4. Display
5. Set Button

Installation

Remove all packing materials from the EB-193. Check that all foam and plastic padding is removed.
Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

The DAP EB-193 is a beltpack transmitter which can be used with the optional DAP EH-1 stage headset microphone (D1416), the optional EL-1 Lavalier microphone (D1415), the optional EH-2 Head microphone (D1420), the optional EL-2 miniature Lavalier microphone (D1419) or the optional GC-1 Guitar cable (D1417). A suitable (optional) receiver is the DAP ER-1193 (D145079 or D145082).

Set Up and Operation

Before turning the EB-193 on, always make shure that the frequency range is allowed in your country.

Placing the batteries

1) Open the battery compartment.
2) Put 2 batteries (2x Battery UM3, AA1.5V) in the holder. Pay attention to the polarity of the batteries and put them in correctly. Now close the battery compartment again.

3) Set the switch on top in the ON position. The LED will light green if the unit is working correctly. If the LED lights up red, you need to change the batteries.

Changing the frequency of the transmitter

1) Press and hold the **set(5)** button for 3 seconds. The display shows FREQUE. After a second, the display shows the actual frequency while the MHz symbol blinks.
2) Use the **up(1)** and **down(2)** buttons to select the desired frequency.
3) Press the **set(5)** button again to store the setting. The display will briefly show STORE. Now the setting is stored in memory.

Locking the EB-193

The EB-193 has a locking function. When activated, the locking function blocks all keys so you can't accidentally switch the EB-193 off or change the frequency while performing.
1) Press and hold the **set(5)** button for 3 seconds. The display shows FREQUE.
2) Tap the **set(5)** button again, the display will show LOC OFF.
3) Press the **Up(1)** buttonto turn the lock function on.
4) Press the **set(5)** button again. The display will briefly show STORE. Now the setting is stored in memory.

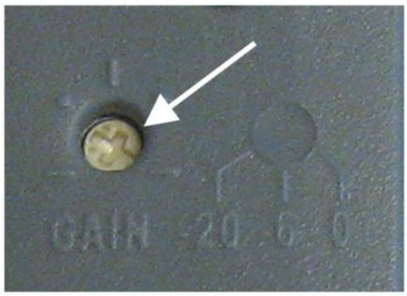
Unlocking the EB-193

1) Press and hold the **set(5)** button for 3 seconds. The display shows FREQUE.
2) Tap the **set(5)** button again, the display will show LOC ON.
3) Press the **Down(2)** buttonto turn the lock function on.
4) Press the **set(5)** button again. The display will briefly show STORE. Now the setting is stored in memory.

Gain adjustment

1) Uncover the gain trimpot.

2) Turn the trimpot using the supplied screwdriver.



Tips for achieving maximum performance.

- Make sure you can always see a receiver antenna from the transmitter position.
- Keep the distance from transmitter to receiver antenna as short as possible.
- Point the receiver antennas away from each other at 45 degrees angle from vertical position.
- Avoid placing the receiver antennas near metal surfaces and obstructions.
- Replace battery as soon as low battery LED lights.
- If stacking or rack mounting receivers in a multiple system setup. Do not allow antennas to cross.
- Perform a walk-through before performance or presentation. If dead spots are found, adjust the location of the receiver. If dead spots remain, mark the dead spots and avoid them.

Approval

D145279: 790-814 MHz for use in:	Belgium, Czech Republic, Denmark, France, Germany, Greece, Hungary, Italy, Luxemburg, Norway, Poland, Portugal, Romania, Slovakia, Sweden, Switzerland, Turkey, United Kingdom.
D145282: 822–846 MHz for use in:	Denmark, Germany, Hungary, Italy, Luxemburg, Netherlands, Poland, Romania, Sweden, Switzerland, United Kingdom.

Exclusion of liability
The frequency tables in this publication are made according to national laws and regulations. The frequencies are checked on a regular basis. We don't take any responsibility for eventual discrepancies between our listed frequencies and the frequencies actually approved in a given country. We strongly suggest you to inform in your own country or region for any changes or adaptions regarding the allowed frequencies.

Please refer to your authority as listed below:

Telecoms & Postal Regulatory Authorities in Europe

Austria Rundfunk und Telekom Regulierungs-GmbH	www.rtr.at
Belgium Belgian Institute of postal services and telecommunications (BIPT)	www.bipt.be
Czech Republic Czech Telecommunication Office	www.ctu.cz
Denmark National Telecom Agency	www.tst.dk
Finnland Finnish Communications Regulatory Authority (FICORA)	www.ficora.fi
France Autorité de Régulation des Télécommunications (ART)	www.art-telecom.fr
Germany Die Bundesnetzagentur	www.regtp.de
Greece National Telecommunications Commission (EET)	www.eett.gr
Hungary Communication Authority (HIF)	www.hif.hu
Iceland Post and Telecom Administration (PTA)	www.pta.is
Ireland Commission for Communications Regulation (ComReg)	www.comreg.ie
Italy Italian Communications Authority (AGC)	www.agcom.it
Latvia Telecommunication State Inspection	www.vei.lv
Liechtenstein Office for Communications (AK)	www.ak.li
Lithuania Radio Administration	www.rrt.lt
Luxembourg Institut Luxembourgeois des Télécommunications (ILT)	www.etat.lu/ILT
Netherlands Onafhankelijke Post en Telecommunicatie Autoriteit (OPTA)	www.opta.nl
Agentschap Telecom	www.agentschap-telecom.nl
Ministry of Economic Affairs	www.ez.nl
Norway Norwegian Post and Telecommunications Authority (NPT)	www.npt.no
Poland Urzad Regulacji Telekomunikacji (URT)	www.urt.gov.pl
Portugal Autoridad Nacional De Comunicaçòes (ICP-Anacom)	www.anacom.pt
Slovenia Agencija za telekomunikacije, radiodifuzijo in pošto	www.atrp.si

Declaration
OF CONFORMITY

This certifies that the following designated product:

Name: **EB-193 Wireless PLL 790-814MHz Belt pack 193 Freq**

Model No.: **D145279**

Brand Name: **DAP AUDIO**
(Product Identification)

Authorized by the European Union to act as Conformity Assessment Body in accordance with the R&TTE Directive 1999/5/EC

EN 300 422-2 V1.2.2(2008-03)

EN 301 489-1 V1.8.1(2008-04)

EN 301 489-9 V1.4.1(2007-11)

EN 60065:2002+A1:2006+A11:2008

The device shall be marked as follows:

CE 1856 !

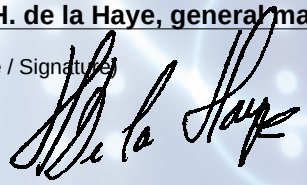
This certificate is issued by:
(Name/Address)

Highlite International B.V.
Vestastraat 2, 6468 EX Kerkrade
The Netherlands

This is the result of tests carried out on those samples of the product referred to above which were submitted for testing, in accordance with the specification for the respective standards. The certificate holder has the right to fix the mark which shows the segment onto each individual product in the series to which the inspection sample belongs, provided that the product is manufactured in accordance with the test report. Instructions available on demand.

05-Aug-2010
(Date)

Mr. H. de la Haye, general manager
(Name / Signature)



Declaration
OF CONFORMITY

This certifies that the following designated product:

Name: **EB-193 Wireless PLL 822-846MHz Belt pack 193 Freq**

Model No.: **D145282**

Brand Name: **DAP AUDIO**
(Product Identification)

Authorized by the European Union to act as Conformity Assessment Body in accordance with the R&TTE Directive 1999/5/EC

EN 300 422-2 V1.2.2(2008-03)

EN 301 489-1 V1.8.1(2008-04)

EN 301 489-9 V1.4.1(2007-11)

EN 60065:2002+A1:2006+A11:2008

The device shall be marked as follows:

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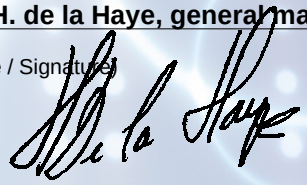
Mr. H. de la Haye, general manager
(Name / Signature)



Maintenance

The DAP Audio EB-193 requires almost no maintenance. However, you should keep the unit clean. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Do not use alcohol or solvents.
Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Troubleshooting

DAP Audio EB-193
This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.
1. If the device does not operate properly, set the switch on the beltpack in OFF position.
2. Check the batteries, etc.
3. If all of the above appears to be O.K., Set the switch in ON position.
4. If you are unable to determine the cause of the problem, do not open the beltpack, as this may damage the unit and the warranty will become void.
5. Return the beltpack to your DAP Audio dealer.

Product Specification

Model: DAP Audio EB-193
Power: Battery 2x UM2, AA1.5V
Dimensions: 105 x 72 x 30 mm (LxWxH)
Weight: 1,08 Kg

Frequency Preparation: Crystal
Carrier Frequency Range D145279: 790-814MHz
D145282: 822-846MHz
RF Output: 10 mW
Stability: ±0.005%
Frequency Deviation: ±48 kHz
Controls: Power On/Off, AF gain, Frequency Up/Down, Lock-on mode
Spurious Rejection: < -60 dBC
Audio Freq. Response: 50Hz – 16kHz
Phantom Power: 5Vdc (pin 2)
Battery: UM3, AA 1.5V x 2

Design and product specifications are subject to change without prior notice.

CE

Website: www.Highlite.nl
Email: service@highlite.nl

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